WHAT IS CLAIMED IS:

- A method comprising:
 detecting a reset condition;
 verifying a memory controller is initialized; and
 placing a memory system into a retention state.
- 2. The method of Claim 1, further comprising verifying the memory controller is initialized by delaying a reset signal.
- 3. The method of Claim 1, further comprising monitoring the voltage level of a system to determine a power failure.
- 4. The method of Claim 3, further comprising generating a reset condition when either a power failure or a reset request occurs.
- 5. The method of Claim 4, further comprising verifying the reset request does not occur prior to initialization.
- 6. The method of Claim 1, further comprising detecting the reset condition and verifying the memory controller is initialized external to the memory controller.
 - 7. A memory system comprising:
- a power delay circuit external to a memory controller, wherein the power delay circuit instructs the

memory system to run a retention routine during a power failure or reset condition.

- 8. The memory system of Claim 7, further comprising a power fail controller which prevents the retention routine from executing when the memory system is not configured.
- 9. The memory system of Claim 7, wherein the power delay circuit outputs a reset signal is either a power failure or a system reset signal is detected.
- 10. The memory system of Claim 9, wherein the power delay circuit outputs a delay signal when the output reset signal is caused by a system reset signal.
- 11. The memory system of Claim 7, wherein the power delay circuit monitors a voltage detector to detect a power failure.
- 12. The memory system of Claim 8, wherein the power fail controller may be internal to the memory controller.
- 13. A method placing a memory system in a data retention mode comprising:

detecting either a power failure or reset signal;
generating a delay signal based on the reset signal;
and

initiating a data retention routine if the delay signal indicates the memory system is initialized.

- 14. The method of Claim 13 further comprising monitoring the voltage level of a system to determine a power failure.
- 15. The method of Claim 13, further comprising generating two output signals to the memory controller based on the delay signal.
- 16. The method of claim 13, further comprising preventing initiating the data retention routine if the reset. signal is not de-asserted for a predetermined period of time.